

Sequence Listing

<110> Botstein,David

Desnoyers,Luc

Ferrara,Napoleone

Fong,Sherman

Gao,Wei-Qiang

Goddard,Audrey

Gurney,Austin L.

Pan,James

Roy,Margaret Ann

Stewart,Timothy A.

Tumas,Daniel

Watanabe,Colin K.

Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

<130> P2930R1C1

<150> 60/095,325

<151> August 4, 1998

<150> 60/112,851

<151> December 16, 1998

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<151> January 12, 1999

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<151> October 29, 1999

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<151> December 9, 1999

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<151> March 3, 2000

<150> PCT/US99/12252
<151> June 2, 1999

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 Val Ser Ser Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr
 65 70 75
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 Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
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 Pro Tyr Asn Val Ser Lys Thr Ala Leu Leu Gly Leu Thr Lys Thr
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 Ala Pro Gly Leu Ile Lys Thr Ser Phe Ser Arg Met Leu Trp Met
 215 220 225
 Asp Lys Glu Lys Glu Glu Ser Met Lys Glu Thr Leu Arg Ile Arg
 230 235 240
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35 40 45

Phe Val Pro Arg Pro His Thr Ala Pro Leu Gly Gly Ala His Ala

50 55 60

His Val Leu Gly Met Val Pro Pro Ala Cys Leu Pro Gly Asp Glu

65 70 75

Val Gly Ser Glu Gln Arg Gly Glu Gln Val Thr Asn Gly Arg Glu

80 85 90

Ala Gly Ala Glu Leu Leu Thr Glu Val Asn Arg Leu Gly Ser Gly

0966034-05601

0986034.05501
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Pro Glu Leu Cys Leu Glu Glu Leu Asp Ala Ala Ile Pro Gly Ser		
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170	175	180
Pro Pro Ala Thr Ala Ser Glu Trp Arg Leu Ala Gln Ala Gln Gln		
185	190	195
Lys Ile Arg Glu Leu Ala Ile Asn Ile Arg Met Lys Glu Glu Leu		
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Ile Gly Glu Leu Val Arg Thr Gly Lys Ala Ala Gln Ala Leu Asn		
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Arg Gln His Ser Gln Arg Ile Arg Glu Leu Glu Gln Glu Ala Glu		
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260	265	270
Gln Glu Phe Arg Arg Arg Val Ala Ala Ala Gln Ser Gln Val Gln		
275	280	285
Val Leu Lys Glu Lys Lys Gln Ala Thr Glu Arg Leu Val Ser Leu		
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Ser Ala Gln Ser Glu Lys Arg Leu Gln Glu Leu Glu Arg Asn Val		
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Gln Leu Met Arg Gln Gln Gln Gly Gln Leu Gln Arg Arg Leu Arg		

320 325 330

Glu Glu Thr Glu Gln Lys Arg Arg Leu Glu Ala Glu Met Ser Lys
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Arg Gln His Arg Val Lys Glu Leu Glu Leu Lys His Glu Gln Gln
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Gln Lys Ile Leu Lys Ile Lys Thr Glu Glu Ile Ala Ala Phe Gln
365 370 375

Arg Lys Arg Arg Ser Gly Ser Asn Gly Ser Val Val Ser Leu Glu
380 385 390

Gln Gln Gln Lys Ile Glu Glu Gln Lys Lys Trp Leu Asp Gln Glu
395 400 405

Met Glu Lys Val Leu Gln Gln Arg Arg Ala Leu Glu Glu Leu Gly
410 415 420

Glu Glu Leu His Lys Arg Glu Ala Ile Leu Ala Lys Lys Glu Ala
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Leu Met Gln Glu Lys Thr Gly Leu Glu Ser Lys Arg Leu Arg Ser
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Ser Gln Ala Leu Asn Glu Asp Ile Val Arg Val Ser Ser Arg Leu
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Glu His Leu Glu Lys Glu Leu Ser Glu Lys Ser Gly Gln Leu Arg
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Gln Gly Ser Ala Gln Ser Gln Gln Gln Ile Arg Gly Glu Ile Asp
485 490 495

Ser Leu Arg Gln Glu Lys Asp Ser Leu Leu Lys Gln Arg Leu Glu
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515 520 525

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635	640	645
Glu His Glu Gln Asn Met Gln Leu Leu Leu Gln Gln Ser Arg Asp		
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His Leu Gly Glu Gly Leu Ala Asp Ser Arg Arg Gln Tyr Glu Ala		
665	670	675
Arg Ile Gln Ala Leu Glu Lys Glu Leu Gly Arg Tyr Met Trp Ile		
680	685	690
Asn Gln Glu Leu Lys Gln Lys Leu Gly Gly Val Asn Ala Val Gly		
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His Ser Arg Gly Gly Glu Lys Arg Ser Leu Cys Ser Glu Gly Arg		
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Glu Thr Arg Asp Leu Val His Ala Pro Leu Pro Leu Thr Trp Lys		
755	760	765
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770 775 780

Arg Gln Arg Glu Ala Ala Glu Pro Leu Val Gly Arg Val Leu Pro
785 790 795

Val Gly Glu Ala Gly Leu Pro Trp Asn Phe Gly Pro Leu Ser Lys
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Gly Ser Gly Leu Trp Leu Cys Gln Pro Thr Pro Arg Cys Gly Asn
35 40 45

Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile
50 55 60

Leu Ser Leu Lys Glu Thr Arg Arg Cys Gly Ser Thr Cys Thr Phe
65 70 75

Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln
80 85 90

Gln Lys Phe Leu Val Lys Leu Arg Val Leu Gly Met Lys Ser Gln
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Cys His Leu Ser Pro Ile Ser Arg Ser Cys Thr Arg Asn Arg Arg
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His Val Leu Tyr Pro
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<212> PRT

<213> Homo sapiens

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Ile	Pro	Leu	Glu	Lys	Leu	Ala	Gln	Ala	Pro	Glu	Gln	Pro	Gly	Gln
		35			40			45						

Glu	Lys	Arg	Glu	His	Ala	Thr	Arg	Asp	Gly	Pro	Gly	Arg	Val	Asn
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Glu Leu Gly Arg Pro Ala Arg Asp Glu Gly Gly Ser Gly Arg Asp
65 70 75

Trp Lys Ser Lys Ser Gly Arg Gly Leu Ala Gly Arg Glu Pro Trp
80 85 90

Ser Lys Leu Lys Gln Ala Trp Val Ser Gln Gly Gly Gly Ala Lys
95 100 105

Ala Gly Asp Leu Gln Val Arg Pro Arg Gly Asp Thr Pro Gln Ala
110 115 120

Glu Ala Leu Ala Ala Ala Ala Gln Asp Ala Ile Gly Pro Glu Leu
125 130 135

Ala Pro Thr Pro Glu Pro Pro Glu Glu Tyr Val Tyr Pro Asp Tyr
140 145 150

Arg Gly Lys Gly Cys Val Asp Glu Ser Gly Phe Val Tyr Ala Ile
155 160 165

Gly Glu Lys Phe Ala Pro Gly Pro Ser Ala Cys Pro Cys Leu Cys
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Thr Glu Glu Gly Pro Leu Cys Ala Gln Pro Glu Cys Pro Arg Leu
185 190 195

His Pro Arg Cys Ile His Val Asp Thr Ser Gln Cys Cys Pro Gln
200 205 210

Cys Lys Glu Arg Lys Asn Tyr Cys Glu Phe Arg Gly Lys Thr Tyr
215 220 225

Gln Thr Leu Glu Glu Phe Val Val Ser Pro Cys Glu Arg Cys Arg
230 235 240

Cys Glu Ala Asn Gly Glu Val Leu Cys Thr Val Ser Ala Cys Pro
245 250 255

Gln Thr Glu Cys Val Asp Pro Val Tyr Glu Pro Asp Gln Cys Cys
260 265 270

Pro Ile Cys Lys Asn Gly Pro Asn Cys Phe Ala Glu Thr Ala Val
275 280 285

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Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys
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His Cys Thr Tyr Glu Glu Gly Thr Trp Arg Ile Glu Arg Gln Ala
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Met Cys Thr Arg His Glu Cys Arg Gln Met
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<212> DNA

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<213> Homo sapiens

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His Val Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys
 35 40 45

Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
 50 55 60

Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75

Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
80 85 90

Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
95 100 105

Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
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Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
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Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile
140 145 150

Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
155 160 165

Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
170 175 180

Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln Glu Ile Gly
185 190 195

Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
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Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln
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230 235 240

Gly Gln Val Cys Gln Glu Thr Leu Leu Leu Ile Asp Val Gly Leu
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Thr Ser Thr Leu Val Gly Thr Lys Gly Cys Ser Thr Val Gly Ala
260 265 270

Gln Asn Ser Gln Lys Thr Thr Ile His Ser Ala Pro Pro Gly Val
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Leu Val Ala Ser Tyr Thr His Phe Cys Ser Ser Asp Leu Cys Asn
290 295 300

Ser Ala Ser Ser Ser Ser Val Leu Leu Asn Ser Leu Pro Pro Gln
305 310 315

Ala Ala Pro Val Pro Gly Asp Arg Gln Cys Pro Thr Cys Val Gln
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Pro Leu Gly Thr Cys Ser Ser Gly Ser Pro Arg Met Thr Cys Pro
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Arg Gly Ala Thr His Cys Tyr Asp Gly Tyr Ile His Leu Ser Gly
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Gly Gly Leu Ser Thr Lys Met Ser Ile Gln Gly Cys Val Ala Gln
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Pro Ser Ser Phe Leu Leu Asn His Thr Arg Gln Ile Gly Ile Phe
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Ser Ala Arg Glu Lys Arg Asp Val Gln Pro Pro Ala Ser Gln His
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Gly Leu Ala Leu Ala Pro Ala Leu Trp Trp Gly Val Val Cys Pro
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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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35 40 45

Tyr Phe Gly Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu
50 55 60

Leu Ser Gly Pro Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu
65 70 75

Gly Thr Cys Thr Pro Val Gln Leu Val Ala Leu Ile Arg His Gly
80 85 90

Thr Arg Tyr Pro Thr Val Lys Gln Ile Arg Lys Leu Arg Gln Leu
95 100 105

His Gly Leu Leu Gln Ala Arg Gly Ser Arg Asp Gly Gly Ala Ser
110 115 120

Ser Thr Gly Ser Arg Asp Leu Gly Ala Ala Leu Ala Asp Trp Pro
125 130 135

Leu Trp Tyr Ala Asp Trp Met Asp Gly Gln Leu Val Glu Lys Gly
140 145 150

Arg Gln Asp Met Arg Gln Leu Ala Leu Arg Leu Ala Ser Leu Phe
155 160 165

Pro Ala Leu Phe Ser Arg Glu Asn Tyr Gly Arg Leu Arg Leu Ile
170 175 180

Thr Ser Ser Lys His Arg Cys Met Asp Ser Ser Ala Ala Phe Leu
185 190 195

Gln Gly Leu Trp Gln His Tyr His Pro Gly Leu Pro Pro Pro Asp

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Lys Asn Ala Thr Ala Leu Tyr His Val Glu Ala Phe Lys Thr Gly		
245	250	255
Pro Glu Met Gln Asn Ile Leu Lys Lys Val Ala Ala Thr Leu Gln		
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Val Pro Val Asn Asp Leu Asn Ala Asp Leu Ile Gln Val Ala Phe		
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Phe Thr Cys Ser Phe Asp Leu Ala Ile Lys Gly Val Lys Ser Pro		
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Trp Cys Asp Val Phe Asp Ile Asp Asp Ala Lys Val Leu Glu Tyr		
305	310	315
Leu Asn Asp Leu Lys Gln Tyr Trp Lys Arg Gly Tyr Gly Tyr Thr		
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Ile Asn Ser Arg Ser Ser Cys Thr Leu Phe Gln Asp Ile Phe Gln		
335	340	345
His Leu Asp Lys Ala Val Glu Gln Lys Gln Arg Ser Gln Pro Ile		
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Ser Ser Pro Val Ile Leu Gln Phe Gly His Ala Glu Thr Leu Leu		
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Pro Leu Leu Ser Leu Met Gly Tyr Phe Lys Asp Lys Glu Pro Leu		
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Thr Ala Tyr Asn Tyr Lys Lys Gln Met His Arg Lys Phe Arg Ser		
395	400	405
Gly Leu Ile Val Pro Tyr Ala Ser Asn Leu Ile Phe Val Leu Tyr		
410	415	420
His Cys Glu Asn Ala Lys Thr Pro Lys Glu Gln Phe Arg Val Gln		

425	430	435
Met Leu Leu Asn Glu Lys Val Leu Pro Leu Ala Tyr Ser Gln Glu		
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Thr Val Ser Phe Tyr Glu Asp Leu Lys Asn His Tyr Lys Asp Ile		
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Ala Val Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu
35 40 45
Phe Glu Ser Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr
50 55 60
Ser Asp Pro Arg Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr

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Arg Ala Glu Ile Leu Gly Lys Thr Ser Leu Lys Ile Trp Asn Val		
95	100	105
Thr Arg Arg Asp Ser Ala Leu Tyr Arg Cys Glu Val Val Ala Arg		
110	115	120
Asn Asp Arg Lys Glu Ile Asp Glu Ile Val Ile Glu Leu Thr Val		
125	130	135
Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro Lys Ala Val		
140	145	150
Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser Glu Gly		
155	160	165
His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro Leu		
170	175	180
Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Phe		
185	190	195
His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His		
200	205	210
Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala		
215	220	225
Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu		
230	235	240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val		
245	250	255
Leu Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly		
260	265	270
Tyr Phe Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro		
275	280	285
Gly Lys Pro Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly		

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<212> DNA
<213> Homo sapiens

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